

CATALOG 31
ISSUE 1930

J.G. BRAUN COMPANY
DISTRIBUTORS OF
ARCHITECTURAL SHAPES IN
"ALCOA" ALUMINUM

WAREHOUSES
CHICAGO, ILL. SAN FRANCISCO, CAL.
NEW YORK, N.Y. LOS ANGELES, CAL.

AIA. FILE No 15

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Architectural Shapes in "ALCOA" ALUMINUM



Distributors

J. G. BRAUN COMPANY

CHICAGO, ILL.
609-615 South Pauline Street

NEW YORK, N. Y.
537-541 West 35th Street

SAN FRANCISCO, CAL.
636 Potrero Ave.

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1205 East 8th Street

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INTRODUCTION

We are again taking the lead in offering a service both from stock and from mill in a metal used for many years successfully in many industries but comparatively a newcomer in the architectural field, ALUMINUM.

In approaching this problem, we have decided to attack it from the broadest angle relative to architectural practice. We offer from stock, a comprehensive series of sections of all types for architectural and decorative work, and upon this foundation we will continue to build and develop new sections as the demand will necessitate and carry a still larger range, eventually. From mill we are enabled to furnish sections to architect's design, thus meeting every requirement.

More than ever, we require the helpful suggestions and cooperation both of the architect and of the worker in metal, for without their assistance, progress will be slow. We, therefore, invite frequent comments and helpful criticism.

We sincerely hope that this new departure will prove as much of a help and success as our Steel Mouldings, Ornaments and Perforated Sheets have been in the past.

GENERAL INFORMATION

MATERIAL

Since Aluminum has come to be used profusely in the architectural and decorative fields, it may be in order to give some general and specific data.

For architectural purposes, Aluminum fills a long felt want in supplying the silver-like polish or soft finishes of various types that are now finding such common application. It is obtainable in many commercial forms, such as castings, forgings, rolled, drawn and extruded shapes, the latter of which largely covers the materials shown in this catalog. All of these various forms find use in the building scheme. With the development of various alloys has come the possibility of using Aluminum in every direction. Thus we can furnish Aluminum sections having a strength comparing favorably with that of steel and, in some instances, even exceed it.

We give below the essential technical data that concerns itself most with architectural work.

TECHNICAL INFORMATION

Specific Gravity:

Aluminum Alloy—3S...	2.74
Brass.....	8.51—3.06 times weight of aluminum
Copper.....	8.89—3.2 times weight of aluminum
Steel.....	7.86—2.88 times weight of aluminum
Aluminum, as may be seen, has a weight of roughly one third of Steel, Brass or Bronze.	

Aluminum Alloy 3S:

This contains $1\frac{1}{4}\%$ manganese to give it additional strength and resistance to corrosion.

Tensile strength in half hard 20,000 to 24,000 pounds.

An alloy recommended where no unusual stresses exist. Well suited to take polish, satin and similar finishes.

Aluminum Alloy 43S:

This contains 5% silicon added for additional strength and resistance to corrosion.

Tensile strength 21,000 to 25,000 pounds.

Has much the same qualities as Alloy 3S but slightly preferable to the former for its somewhat greater strength.

Aluminum Alloy 51S:

This is one of the strong Aluminum alloys which, by heat treatment can further be strengthened.

It contains 0.6% magnesium, 1.0% silicon.

Quenched temper is designated by adding initial "W." Heat Treated is designated by adding initial "T."

Tensile Strength:

51SW—30,000 to 40,000 pounds.

51ST —45,000 to 50,000 pounds.

Brinell Hardness:

51SW—55 to 70.

51ST —90 to 100.

Where great strength is required, use alloy 51SW. Where hardness for wear is necessary, use alloy 51ST. This finishes as well as alloys 3S or 43S.

Extrusion Tolerances:

For architectural shapes in alloy 3S, 43S, and 51S, the following extreme extrusion tolerances apply:

	Not Heat Treated + or —	Heat Treated + or —
up to .125	.007"	.010"
.126 to .500	.010"	.015"
.501 to 1.000	.015"	.020"
1.001 to 2.000	.017"	.025"
2.001 to 3.000	.020"	.030"
3.001 to 4.000	.025"	.035"
4.001 to 5.000	.030"	.045"
5.001 and over	.035"	.060"

Generally these tolerances are held considerably closer.

Finishes:

Aluminum lends itself very splendidly and readily to various finishes. Some of the more popular are high polish, satin finish, scratch brush finish, and sand blasting.

Aluminum can readily be plated. However, this seems to be uneconomical since polishing gives the same effect.

Working of Aluminum:

Aluminum can readily be worked with all the known shop means now existing. Files should be rather coarse, cutting tools, taps and drills are more satisfactory with shorter rakes, circular saws with coarse teeth are recommended. The usual metal band saws are satisfactory.

Aluminum is easily soldered and welded. Soldering is recommended only for interior work, while welding will give the same satisfactory results as other metals for all purposes. Some practice in both will be necessary and it is very essential that the proper flux and welding rod should be used.

We are prepared to assist the worker in metals with further data through pamphlets and personal assistance in working out the various problems.

SPECIFICATIONS:

All extruded Aluminum shall be of the thickness specified and where gauge is used Brown and Sharpe Gauge is to apply. All tubing shall be of gauges specified, the Birmingham Wire Gauge to apply. All extruded shapes shall be of 3S Alloy having a manganese content of 1¼% or 43S Alloy having a silicon content of 5% except for members requiring additional strength in which case heat treated 51SW Alloy having 0.6% magnesium and 1.0% silicon is to be used. Where hardness is desirable such as in door saddles 51ST Alloy is to be used.

SERVICE:

A large number of sections shown in this catalog are carried in stock. For many other sections dies are available. For a part of the proposed sections dies have not as yet been made up. The latter will be produced as the demand warrants.

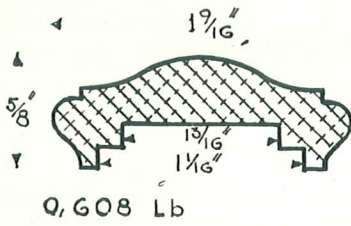
For further information regarding the above see **Stock List** issued separately.

Flat, Squares and Angles are carried by other Distributors to whom we will gladly refer you.

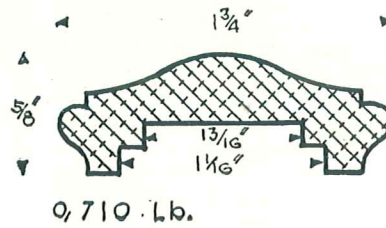
Sections are carried in stock in random lengths up to 16 feet. We have facilities in our warehouses to cut to specified straight lengths. From mill they can be furnished in any desired lengths.

HANDRAILS

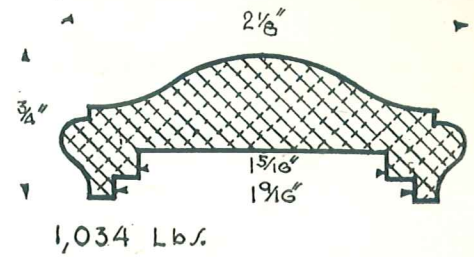
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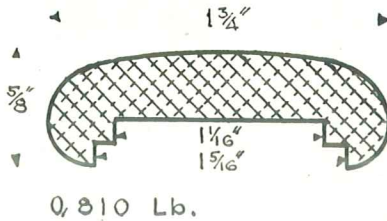
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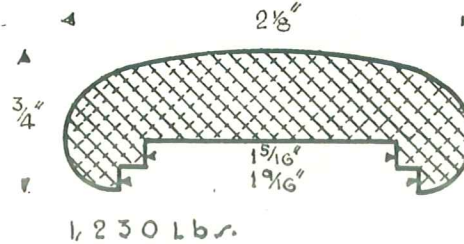
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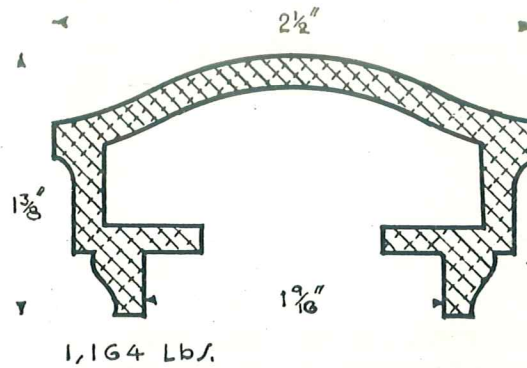
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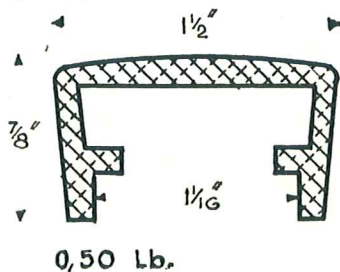
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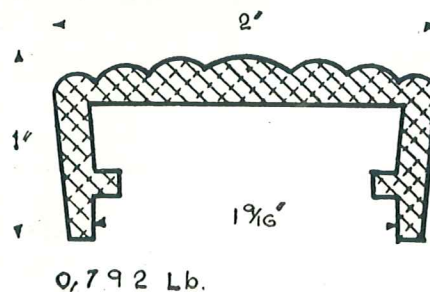
N° 4902



N° 4906



N° 4907



Aluminum handrails present various advantages. In either polished or satin finish their effect is very rich. The cost is reasonable and they can be worked with ease.

■ Weights
Approximate

CONSULT STOCKLIST FOR AVAILABLE SECTIONS

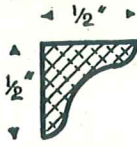
COVE and PANEL MOULDING

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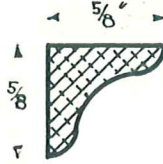
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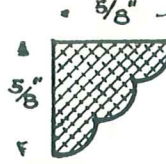
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N° 4711



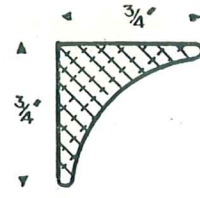
0,218 Lb.

N° 4728



0,300 Lb.

N° 4712



0,230 Lb.

N° 4757



0.121 Lbs.

N° 4760



0.173 Lb.

N° 4759



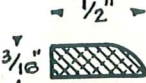
0.18 Lb.

N° 4761



0.230 Lbs.

N° 4752



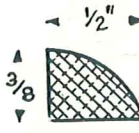
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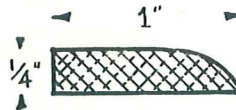
0.15 Lb.

N° 4755



0.158 Lb.

N° 4751



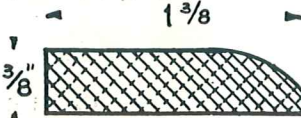
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N° 4758



0.413 Lb.

N° 4754



0.578 Lb.

N° 4750

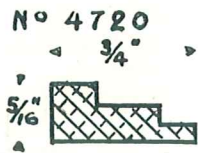


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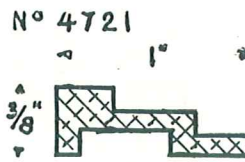
Weights
Approximate

CONSULT STOCKLIST FOR AVAILABLE SECTIONS

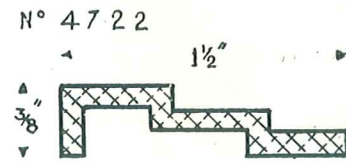
PANEL and SCRIBE MOULDING



0,192 Lb.



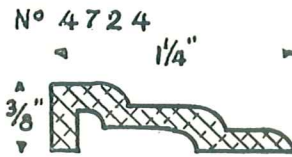
0,249 Lb.



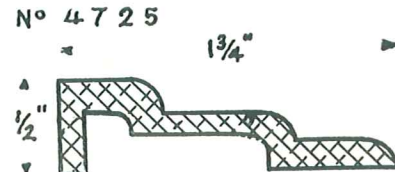
0,300 Lb.



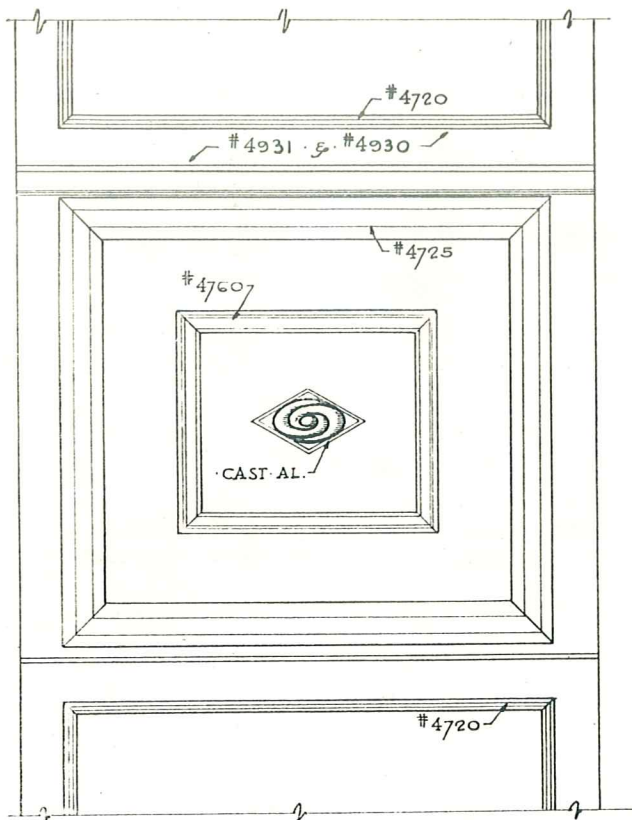
0,204 Lb.



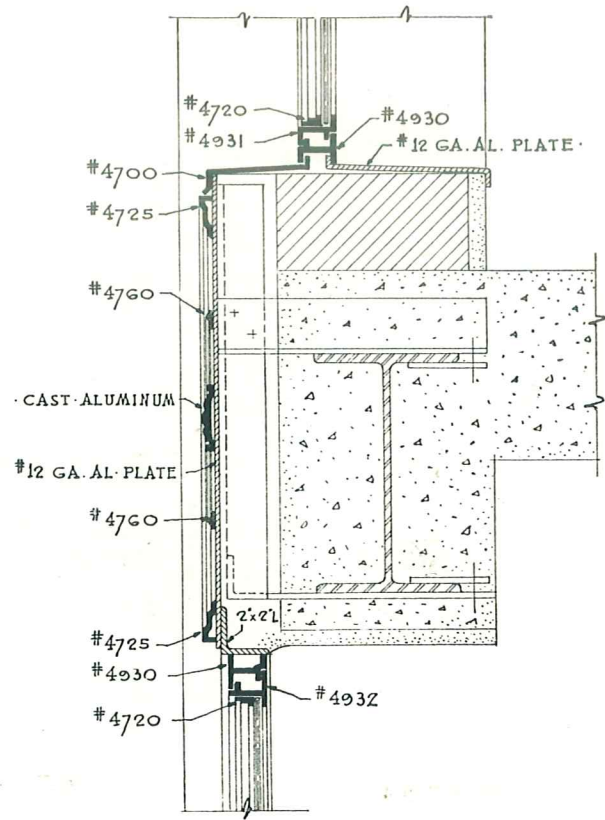
0,252 Lb.



0,330 Lb.



ELEVATION OF ALUMINUM FACIA



SECTION THRU FACIA

SCALE: 1/2" = 1'-0"

Very fine fascia effects can be worked out by applying to aluminum plate various sections illustrated in this catalog. The possibilities are unlimited since any shape to architect's design and requirement can be made.

Weights
Approximate

CONSULT STOCKLIST FOR AVAILABLE SECTIONS

ASTRAGALS and FACINGS

N° 4733
3/4"



0.148 Lb.

N° 4736
7/8"



0.18 Lbs.

N° 4731
1 1/2"



0.306 Lb.

N° 4737
1 1/2"



0.48 Lbs.

N° 4732
2"



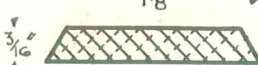
0.425 Lb.

N° 4740
1"



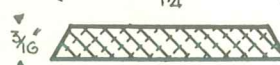
0.180 Lb.

N° 4741
1 1/8"



0.224 Lb.

N° 4739
1 1/4"



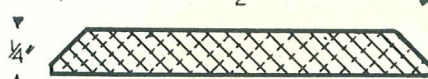
0.23 Lb.

N° 4742
7/8"



0.15 Lb.

N° 4738
2"



0.527 Lb.

N° 4743
1 1/4"



0.22 Lb.

N° 4744
3/4"



0.248 Lb.

N° 4604
1"



0.253 Lbs.

N° 4734
7/8"



0.187 Lb.

N° 4735
1 1/8"



0.259 Lb.

N° 4729
1 1/2"



0.412 Lb.

N° 4726
1 1/2"

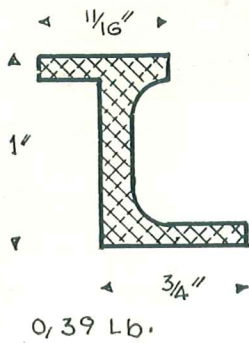


0.456 Lb.

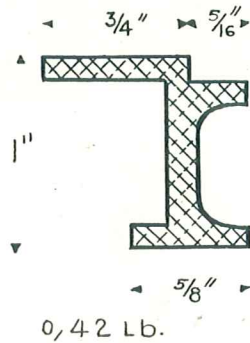
Weights
Approximate

CASEMENT and SASH SECTIONS

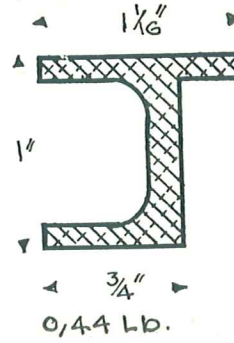
N^o 4920



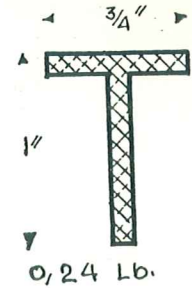
N^o 4921



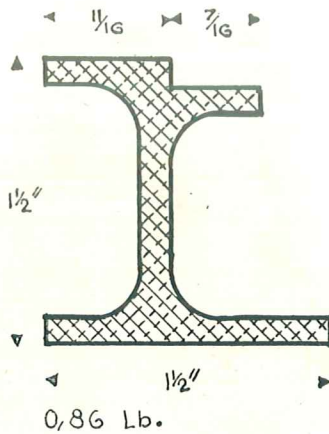
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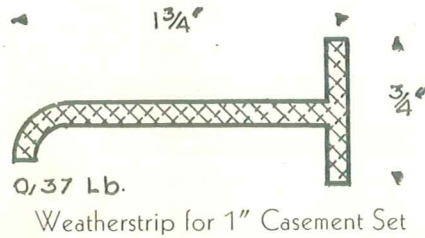
N^o 4625



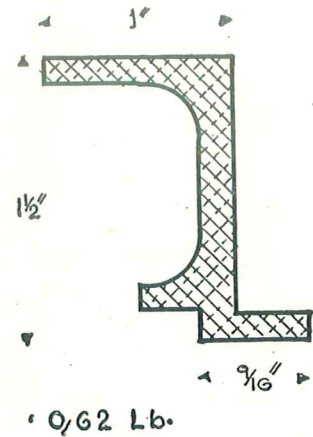
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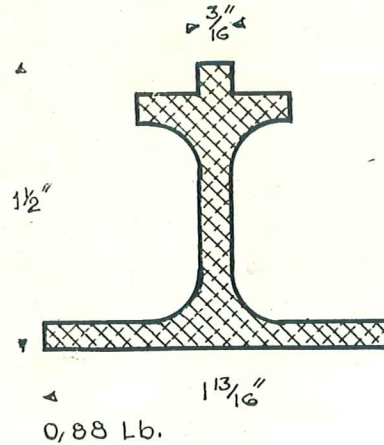
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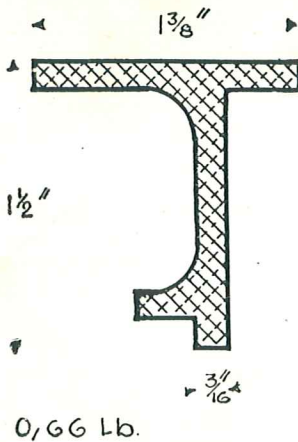
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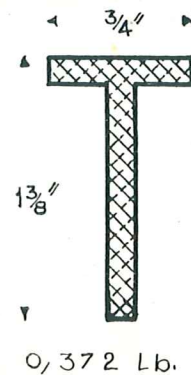
N^o 4933



N^o 4932



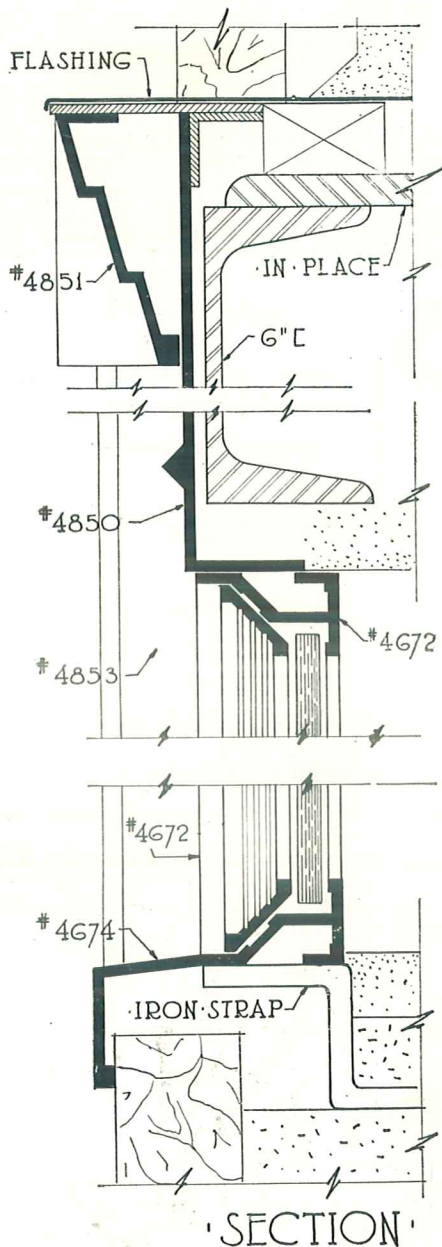
N^o 4626



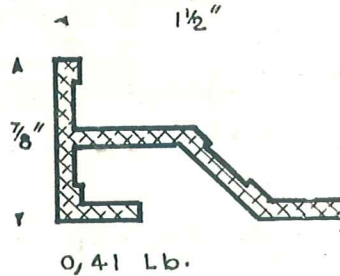
Weights
 Approximate

CONSULT STOCKLIST FOR AVAILABLE SECTIONS

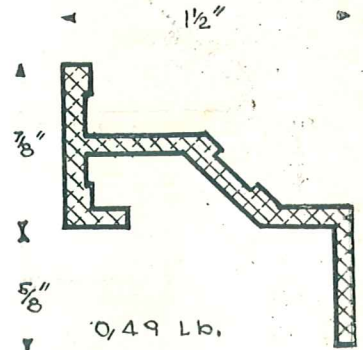
STOREFRONT SASH



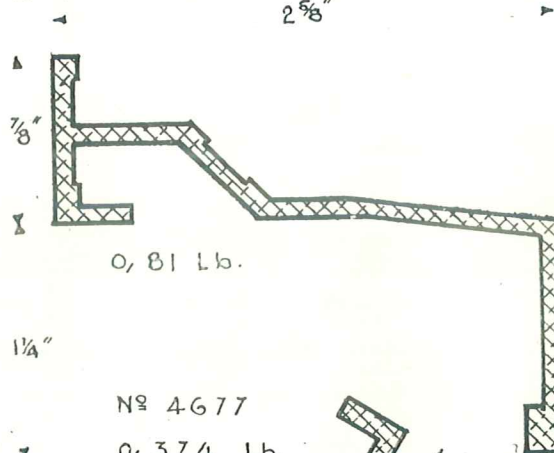
N° 4 6 7 2



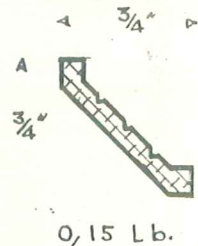
N° 4 6 7 3



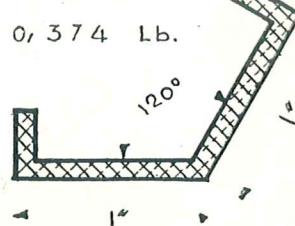
N° 4 6 7 4



N° 4 6 7 5

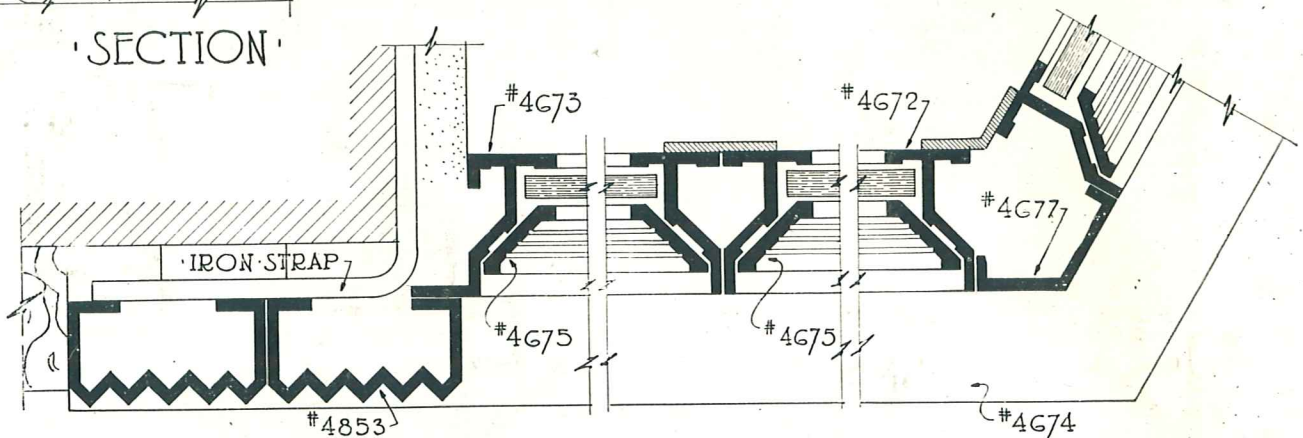


N° 4 6 7 7



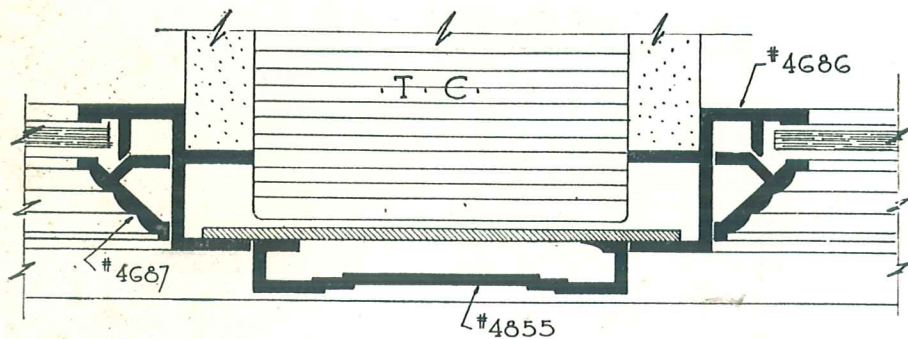
Section # 4677 is shown for a vestibule angle of 120°. Section # 4676 on opposite page is for 90°. Other sections meeting varying angles can readily be procured.

SECTION



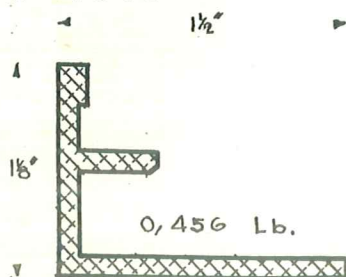
PLAN OF SHOW-WINDOW

SCALE - HALF-FULL-SIZE

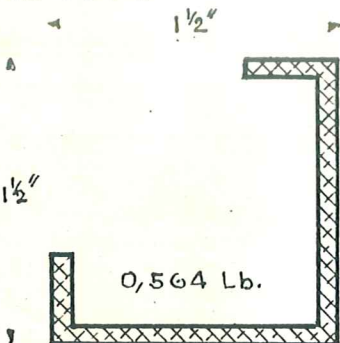


PLAN OF MULLION AT PARTITION

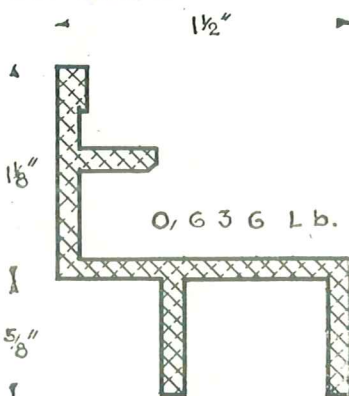
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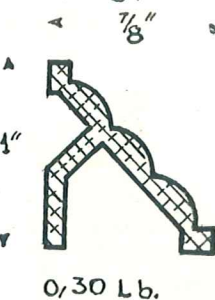
Nº 4676



Nº 4686

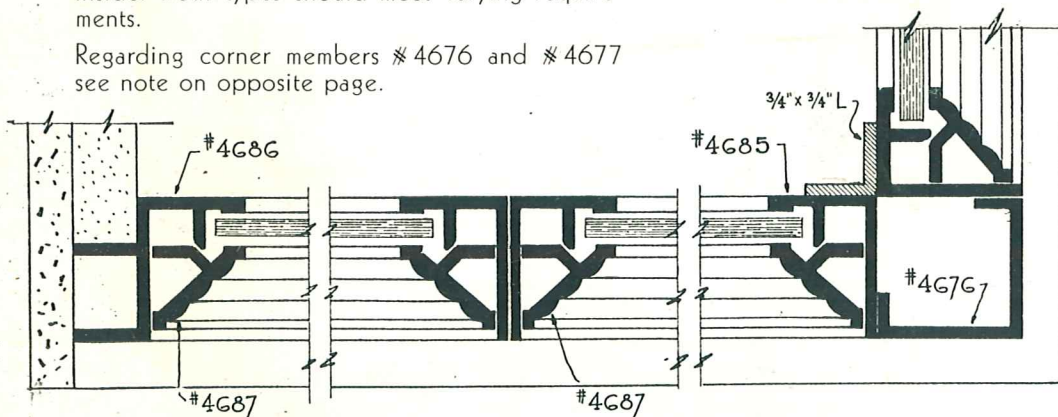


Nº 4687



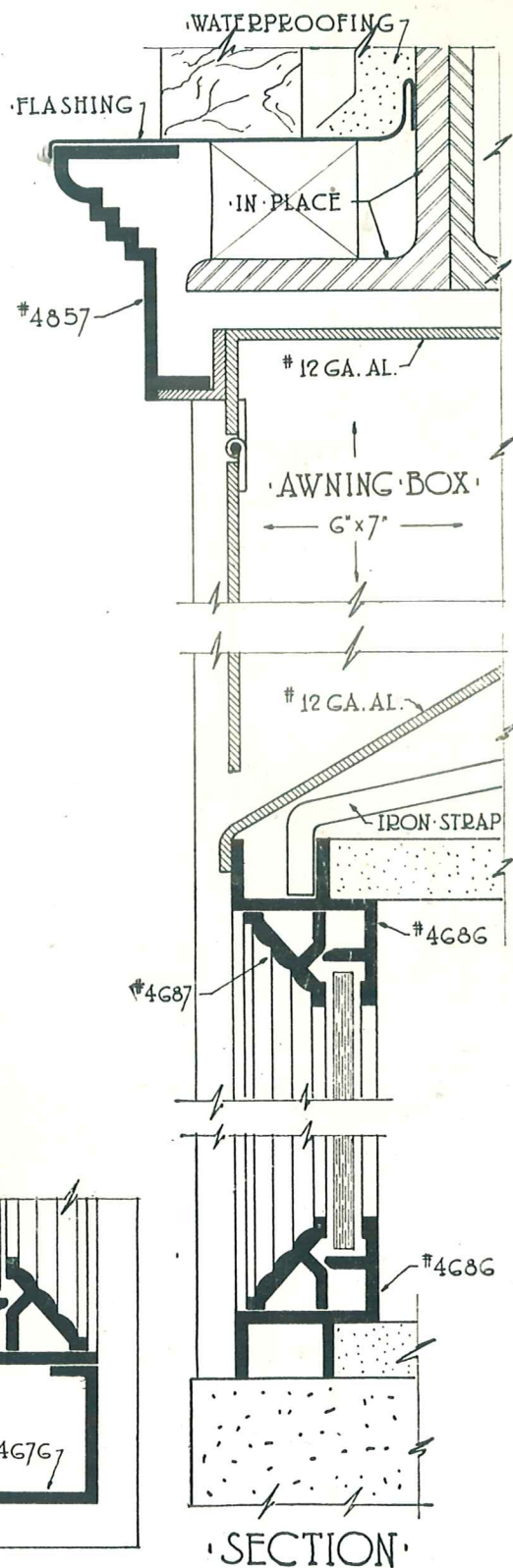
The storefront glazing set on opposite page is constructed to take screws from the outside while the set on this page will be screwed from the inside. Both types should meet varying requirements.

Regarding corner members #4676 and #4677 see note on opposite page.



PLAN OF SHOW-WINDOW

SCALE = HALF FULL SIZE

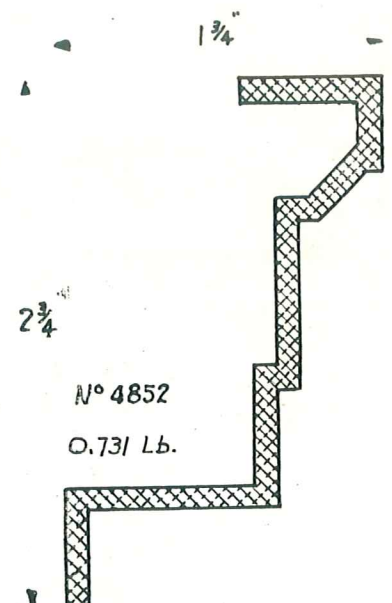
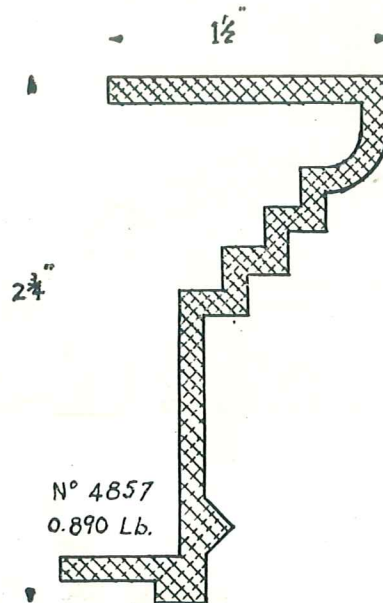
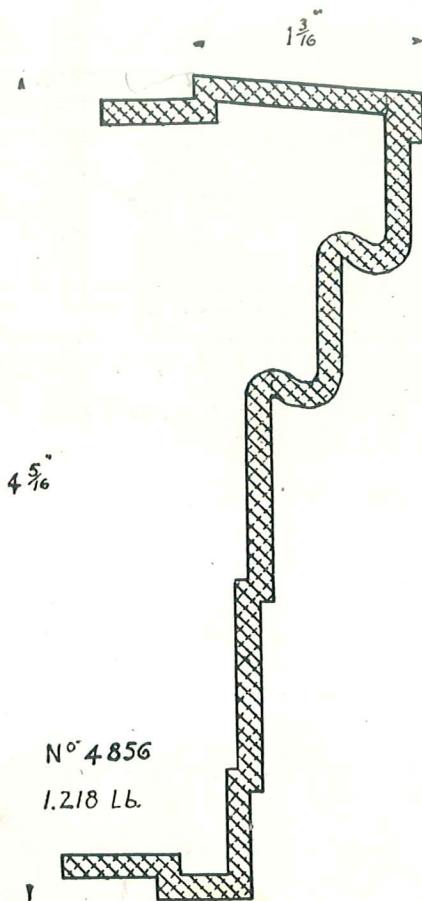
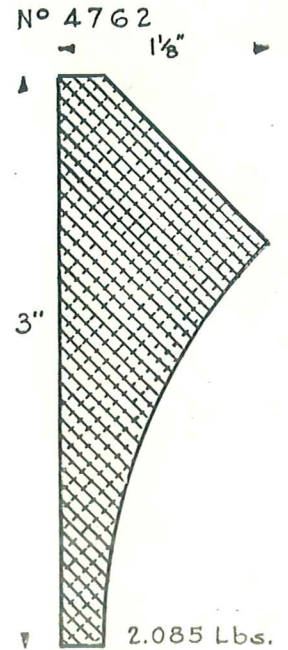
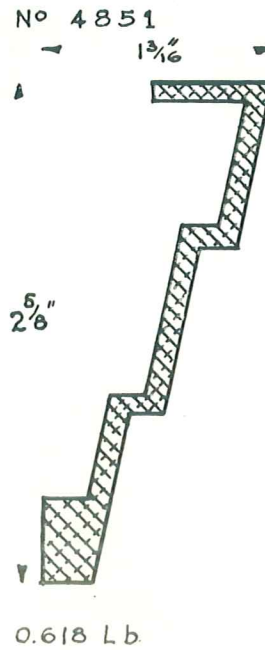
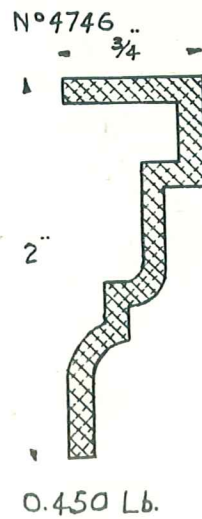
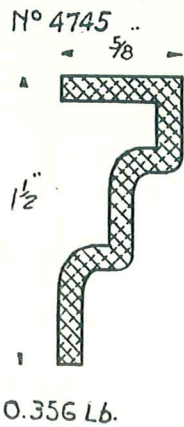


SECTION

Weights
Approximate

CONSULT STOCKLIST FOR AVAILABLE SECTIONS

SCRIBE and CORNICE MOULDING

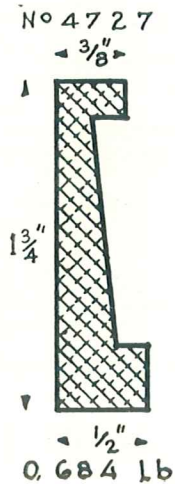


Section #4850 on opposite page is a cornice member which can be combined with the various sections shown on this page as cornice. This section is intentionally made long to allow for various heights.

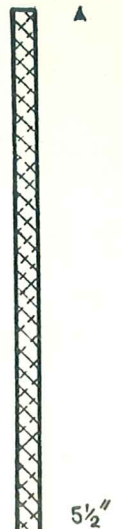
Further combinations with these sections are possible, some suggestions being given in the detail on pages 10, 11, and 14.

Weights
Approximate

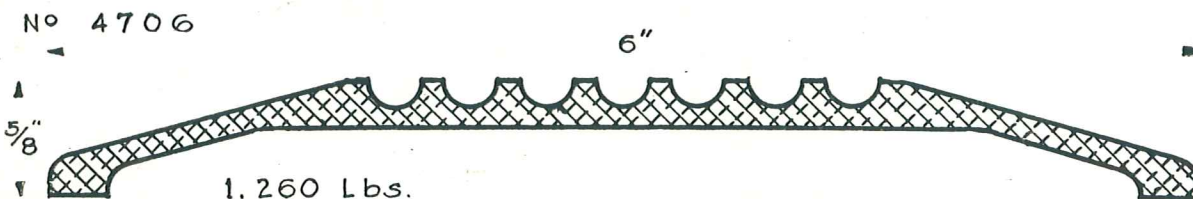
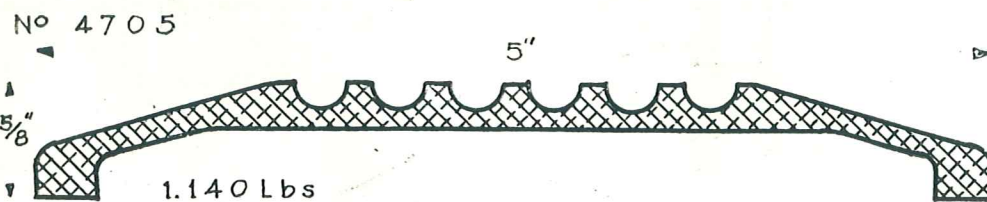
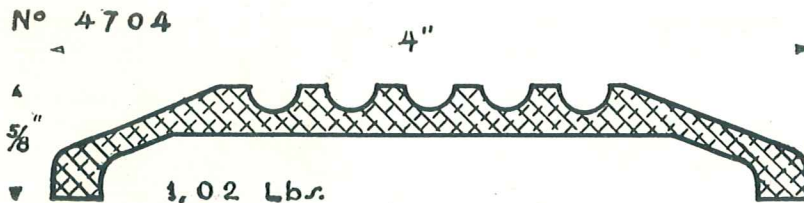
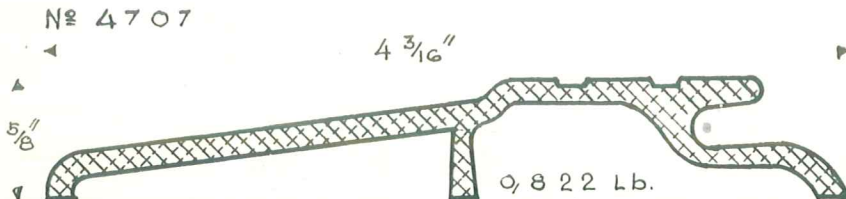
CORNICE MOULDING



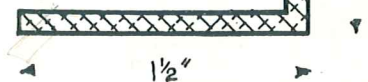
Section # 4727 is designed for framing and paneling or for cornice application and is so constructed as to take cast ornamentation either in long strips or small rosettes at intervals.



DOOR SADDLES



N^o 4850
 1.074 lb.



See note on opposite page

All door saddles are furnished in Alloy 51 ST which is a heat treated alloy for strength and, in particular, for hardness. The wearing quality compares well with that of steel and exceeds that of architectural bronze.

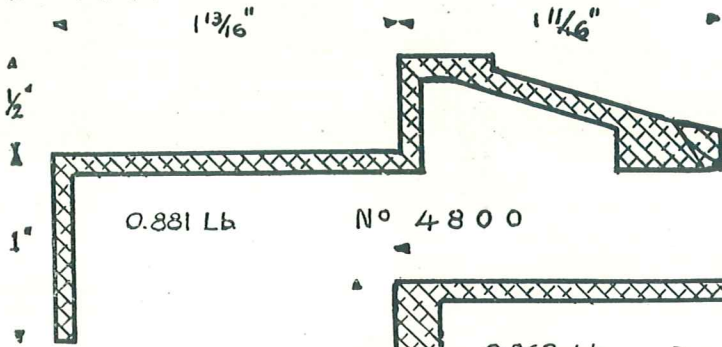
Upon request, weather strip section # 4708 suitable for saddle # 4707, illustrated, can be furnished.

Weights
 Approximate

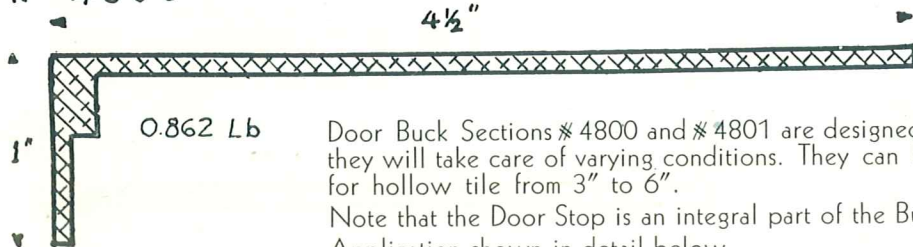
CONSULT STOCKLIST FOR AVAILABLE SECTIONS

DOOR BUCK SECTIONS

N^o 4801

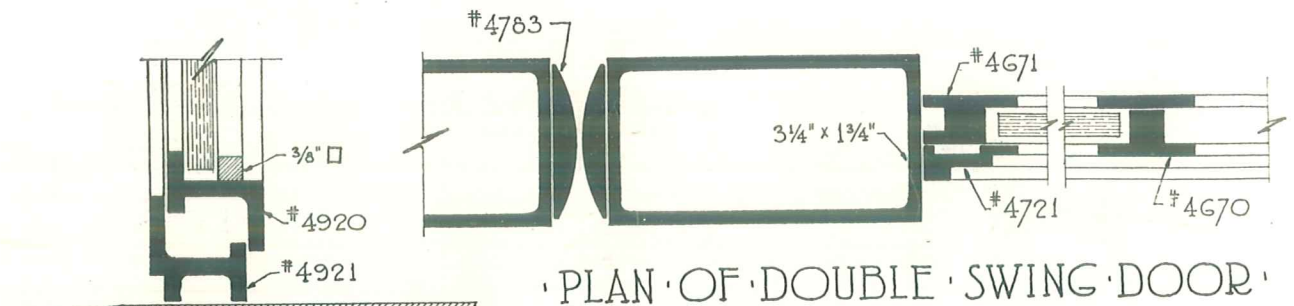


N^o 4800

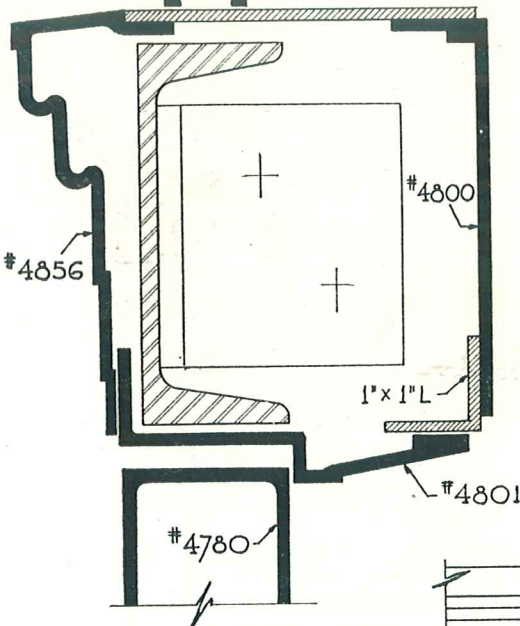


Door Buck Sections #4800 and #4801 are designed so that they will take care of varying conditions. They can be used for hollow tile from 3" to 6".

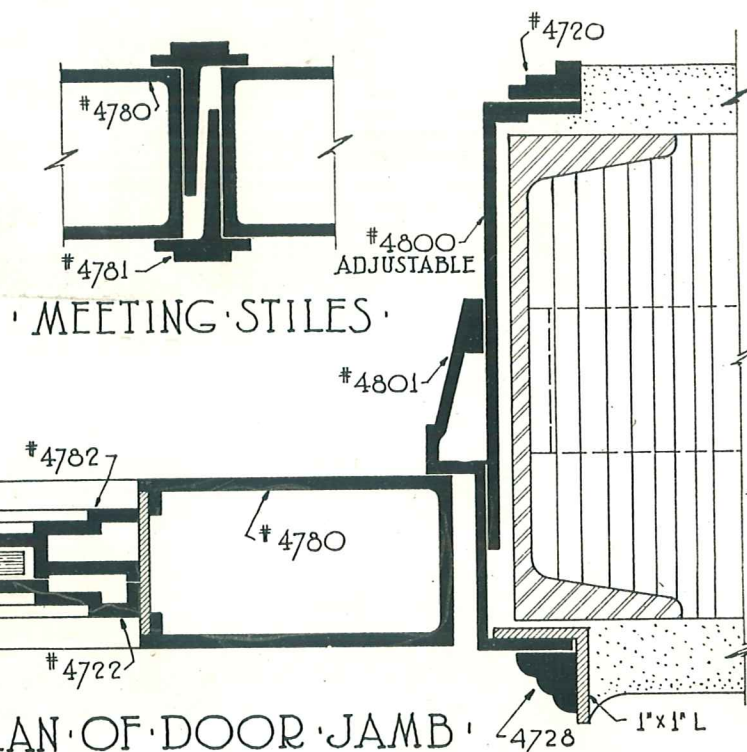
Note that the Door Stop is an integral part of the Buck. Application shown in detail below.



PLAN OF DOUBLE SWING DOOR



SECTION THRU
TRANSOM BAR
SCALE - HALF FULL SIZE

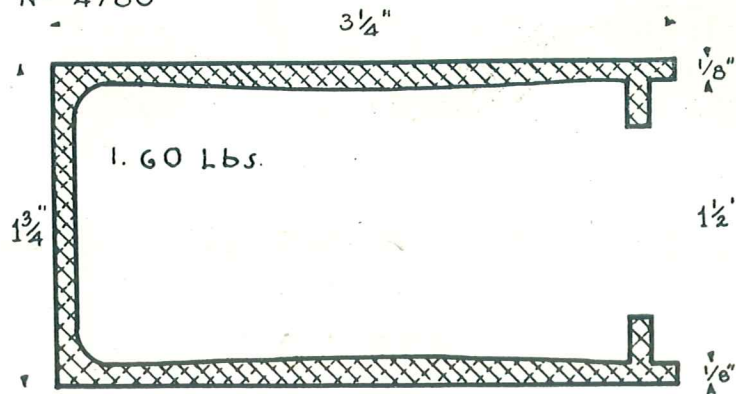


PLAN OF DOOR JAMB

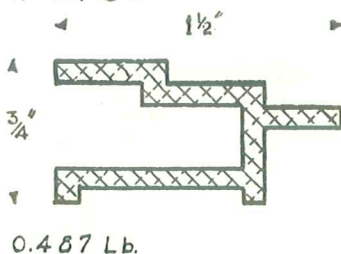
Weights
Approximate

DOOR and GLAZING MOULDING

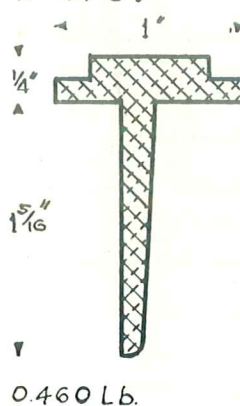
N° 4780



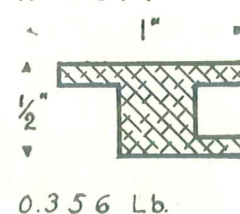
N° 4782



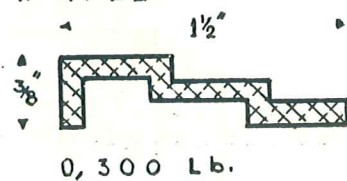
N° 4781



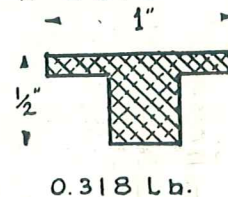
N° 4671



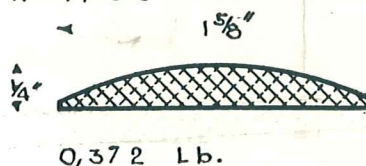
N° 4722



N° 4670



N° 4783



Door and Glazing sections shown on this page can find a variety of uses. Some interesting suggestions are given in the detail on the opposite page.

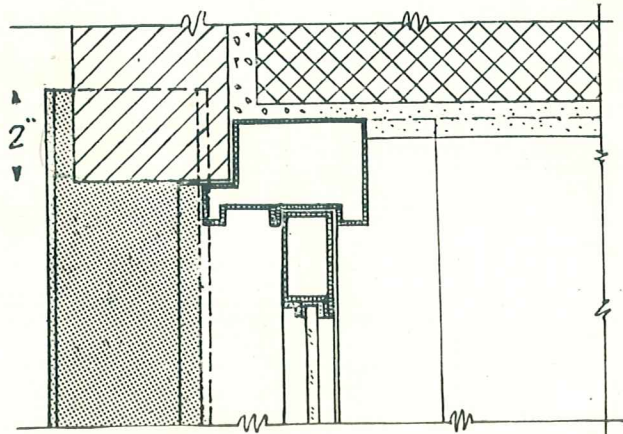
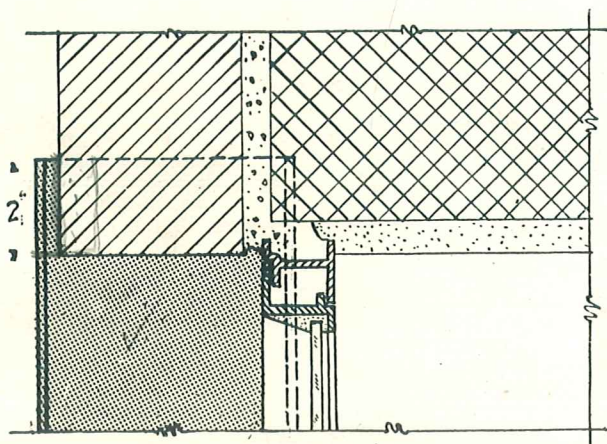
For the construction of doors refer also to page 18 of Channels and Seamless Tubing.

In this first issue of our catalog we show only one type of Style, Rail and Meeting Bar. Any other design can be made up on special orders and other sections will be developed in time as the demand requires.

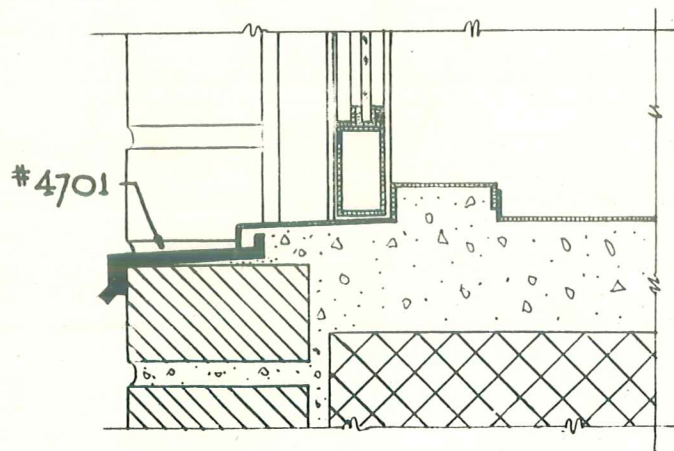
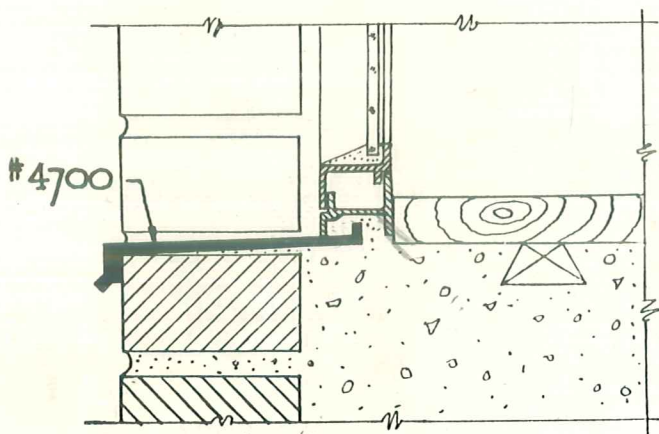
Weights
Approximate

CONSULT STOCKLIST FOR AVAILABLE SECTIONS

WINDOW SILL

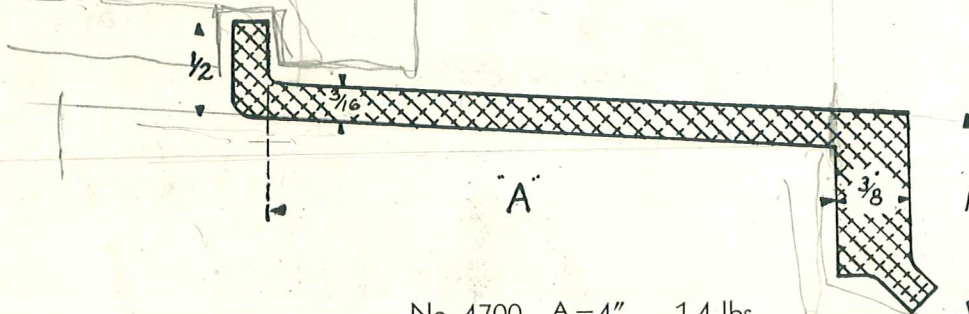


· SECTION · THRU · JAMB ·



· SECTION · THRU · SILL ·

· TYPICAL · DETAIL · OF · SILL · INSTALLATIONS ·



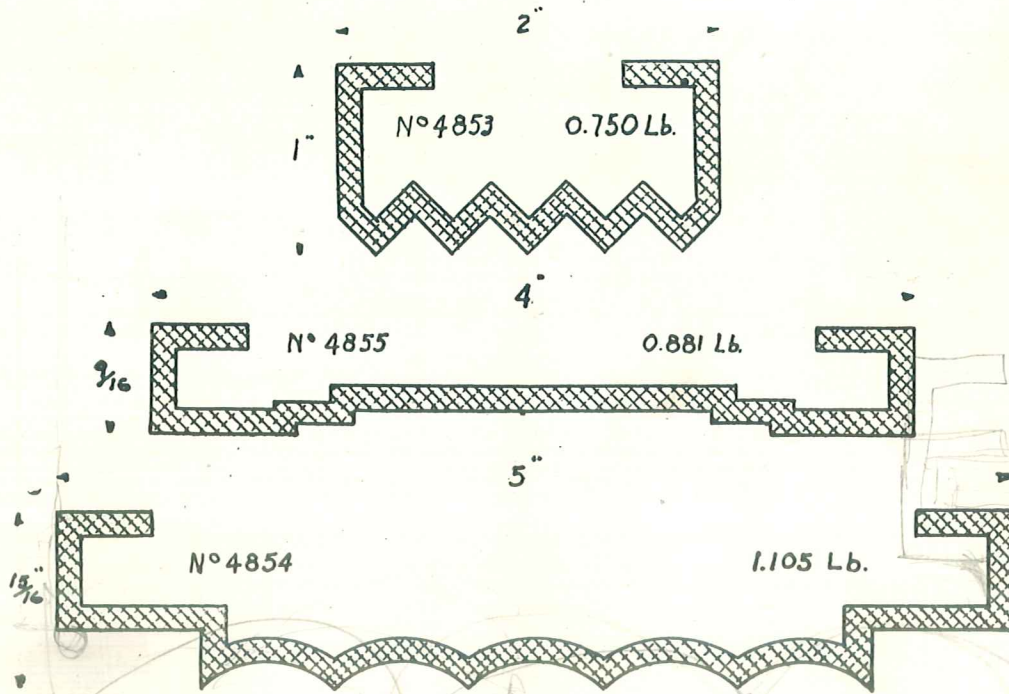
No. 4700	A=4"	1.4 lbs.
No. 4701	A=2 ¹⁵ / ₁₆ "	1.2 lbs.
No. 4702	A=5 ¹ / ₁₆ "	1.75 lbs.

Aluminum Window Sill, while novel to many, is no longer novel in the building field. Numerous large and small building operations have utilized them for the great advantages in utility wearing quality, initial and up-keep costs they offer.

It is not too optimistic to state that ere long their use will be universal.

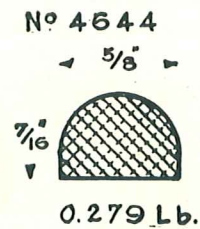
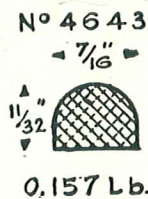
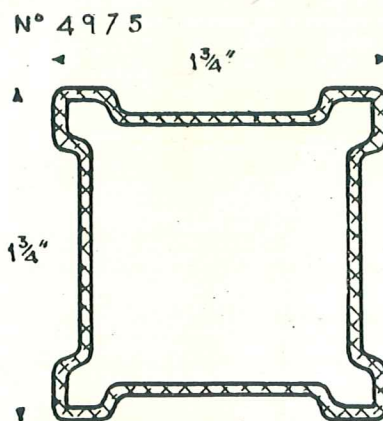
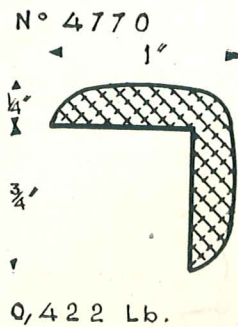
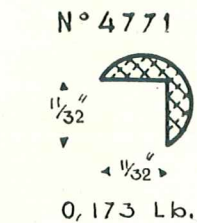
Weights
Approximate

PILASTER SECTIONS



Very fine pilaster effects can be obtained with the use of plate and scribe moulds on page 3, also by using facings on page 4, particularly so, # 4729 and # 4726, applying them successively to a plate. Half-Rounds on page 18 are also well suited for this work. See illustration in detail on pages 10 and 11.

SUNDRIES

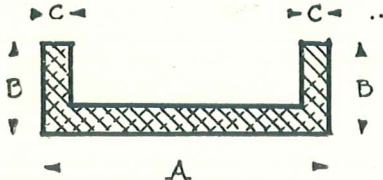


Weights
Approximate

CONSULT STOCKLIST FOR AVAILABLE SECTIONS

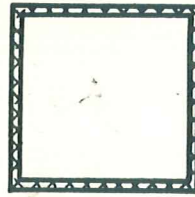
MISCELLANEOUS

CHANNELS



Number	A	B	C	Weight
4600	1"	1/2"	1/8"	.270 Lb.
4605	1"	1"	7/32"	.658 Lb.
4601	1 1/2"	1/2"	5/32"	.416 Lb.
4603	2"	1/2"	3/16"	.612 Lb.
4602	2"	1"	3/16"	.876 Lb.
4606	2"	2"	1/4"	1.65 Lb.

SEAMLESS TUBING



SQUARE

1/2"	x	1/2"	x	16BW/G.
3/4"	x	3/4"	x	16 "
1"	x	1"	x	16 "
1 1/2"	x	1 1/2"	x	14 "
2"	x	2"	x	14 "

RECTANGULAR

1 3/8"	x	1"	x	16BW/G.
1 1/2"	x	3/4"	x	18 "
1 1/2"	x	1"	x	11 "
2"	x	1"	x	14 "
2 1/2"	x	1 1/4"	x	14 "
3"	x	1 3/4"	x	11 "
3"	x	2"	x	11 "
3 1/4"	x	1 3/4"	x	12 "

HALF ROUND and OVAL



HALF ROUND

Number	A	B	Weight
4640	3/8"	3/16"	.068 Lb.
4641	1/2"	1/4"	.115 Lb.
4642	5/8"	5/16"	.180 Lb.

HALF OVAL

4734	7/8"	1/4"	.187 Lb.
4735	1 1/8"	1/4"	.259 Lb.

MACHINE SCREWS

ALLOY 17 ST

Diam.	Threads	Length	Flat Csk.	Round	Jackson Head
6	32	3/8"	..	X	X
6	32	1/2"	X	X	X
6	32	3/4"	X	X	..
8	32	3/8"	..	X	..
8	32	1/2"	X	X	X
8	32	3/4"	X	X	X
10	32	1/2"	X	X	X
10	32	3/4"	X	X	X
10	32	1"	X	X	X
1 1/4"	20	1 1/2"	..	X	..
1 1/4"	20	3/4"	X	X	..
1 1/4"	20	1"	X	X	..

X Carried in stock.

WOOD SCREWS

ALLOY 17 ST

Flat Csk.

6 x	1/2"
6 x	3/4"
8 x	1"
10 x	1 1/2"
12 x	2"

Oval Csk.

8 x	1"
10 x	1 1/2"

RIVETS

ALLOY 3S

Flat Csk.

1/8"	x	1/2"
1/8"	x	3/4"
3/16"	x	3/4"
3/16"	x	1"

Round

1/8"	x	1/2"
1/8"	x	3/4"
3/16"	x	3/4"
3/16"	x	1"

All Screws and Rivets furnished in Bright Finish.

SYNOPSIS OF CATALOGS

We take pleasure in giving below the numbers of our various catalogs together with a description of their contents. If they are not on file they will be gladly furnished.



Catalog #30 STEEL MOULDING: Containing

Mouldings in the modernist manner,
Handrails,
Baluster Iron,
Panel and Scribe Mouldings,
Cornice and Cap Mouldings,
Stair Nosings,
Door Saddles,
Sash Mouldings and Glass Bars,
Astragals and Facings,
Crestings and other shapes.

Iron workers Sundries Consisting of

Baluster Collars,
Square and Rectangular Tubing,
Hardware,
Pickets and Balls,
Finials,
Forged Nails, etc.

Catalog #18 WROUGHT IRON ORNAMENTS:

Containing

A selection of closely 4000 different ornaments from the most delicate to pieces 4 feet long. The assortment contains all manner of leaves, husks, flowers, branches, animals and many other designs.

This material being forged out of heavy stock is suitable for outside application.

Catalog #20 LIGHT IRON ORNAMENTS and IRON PRODUCTS: Containing

A large variety of stamped ornaments in heavy gauge. The display embraces rosettes, husks, leaves, flowers and crestings. This material is recommended for interior application. This catalog, further, displays a variety of mouldings, tubings, pickets, balls and rivets, nails, etc., suitable for interior ornamental iron work.

Catalog #21 STAMPED IRON ORNAMENTS:

A supplementary catalog to Catalog #20.

Catalog #26 PERFORATED STEEL SHEETS: Containing

30 different and beautiful perforated sheets suitable for radiator covers, ventilating grilles and many other purposes. Reference is made in this catalog to other materials applicable to all manner of grille work. It is profusely illustrated with details and illustrations.

Catalog #28 YE FORGED LINE OF COLONIAL HARDWARE: Containing

Many items of hardware carefully designed and beautifully executed in the Colonial Manner. It, further, displays forged nails, lanterns and ornaments for wall decorations.

Catalog #29 WROUGHT IRON DRAPERY HARDWARE: An interesting booklet containing

Complete Curtain Poles,
Window Cornices,
Pole Brackets and Ends,
Center Motifs,
Curtain Poles and Rings,
Tiebacks.

One of the most comprehensive and interesting displays of genuine wrought iron drapery hardware.





J. G. BRAUN COMPANY

609-615 South Paulina Street
Chicago, Ill.

537-541 West 35th Street
New York, N. Y.

636 Potrero Avenue
San Francisco, Cal.

1205 East 8th Street
Los Angeles, Cal.

Architectural Shapes in "ALCOA" ALUMINUM

Stocklist No. 1 to Catalog 31

Stock Number	Catalog Page	(a) Alloy	Carried in Stock	(b) Dies Available	(c) Dies Not Available	Stock Number	Catalog Page	(a) Alloy	Carried in Stock	(b) Dies Available	(c) Dies Not Available
4600	18	43S	X	..	..	4707	13	51ST	X	..	..
4601	18	43S	X	..	..	4710	6	43S	X	..	..
4602	18	43S	X	..	..	4711	6	43S	X	..	..
4603	18	43S	X	..	..	4712	6	43S	..	X	..
4604	8	43S	..	X	..	4713	6	43S	..	X	..
4605	18	43S	..	X	..	4720	7	43S	X	..	..
4606	18	43S	..	X	..	4721	7	43S	X	..	..
4625	9	43S	..	X	..	4722	7 & 15	43S	X	..	..
4626	9	43S	..	X	..	4723	7	43S	X	..	..
4640	18	43S	X	..	..	4724	7	43S	X	..	..
4641	18	43S	X	..	..	4725	7	43S	X	..	..
4642	18	43S	X	..	..	4726	8	43S	..	X	..
4643	17	43S	..	X	..	4727	13	43S	..	X	..
4644	17	43S	..	X	..	4728	6	43S	..	..	X
4650	17	43S	..	X	..	4729	8	43S	..	..	X
4670	15	43S	..	X	..	4731	8	43S	..	X	..
4671	15	43S	..	X	..	4732	8	43S	..	X	..
4672	10	43S	..	..	X	4733	8	43S	..	X	..
4673	10	43S	..	..	X	4734	8	43S	..	X	..
4674	10	43S	..	..	X	4735	8	43S	..	X	..
4675	10	43S	..	..	X	4736	8	43S	..	X	..
4676	11	43S	..	..	X	4737	8	43S	..	X	..
4677	10	43S	..	..	X	4738	8	43S	..	X	..
4685	11	43S	..	..	X	4739	8	43S	..	X	..
4686	11	43S	..	..	X	4740	8	43S	..	X	..
4687	11	43S	..	..	X	4741	8	43S	..	X	..
4700	16	43S	X	..	..	4742	8	43S	..	X	..
4701	16	43S	..	X	..	4743	8	43S	..	X	..
4702	16	43S	..	X	..	4744	8	43S	..	X	..
4704	13	51ST	X	..	..	4745	12	43S	..	..	X
4705	13	51ST	X	..	..	4746	12	43S	..	..	X
4706	13	51ST	X	..	..	4750	6	43S	..	X	..

Note (a) This denotes the Aluminum Alloy in which sections are carried in Stock or recommended. All sections can be furnished in other Alloys from mill if desired.

Note (b) Dies for these sections are available at mill and shipment can be made in 2 to 3 weeks. No charge for dies.

Note (c) Dies for sections in this column will have to be made up and shipment can be made in 4 to 5 weeks. Dies charged at moderate cost.

Architectural Shapes in ALUMINUM

Stocklist No. 1 to Catalog 31 (Continued)

Stock Number	Catalog Page	(a) Alloy	Carried in Stock	(b) Dies Available	(c) Dies Not Available	Stock Number	Catalog Page	(a) Alloy	Carried in Stock	(b) Dies Available	(c) Dies Not Available
4751	6	43S	..	X	..	4854	17	43S	..	..	X
4752	6	43S	..	X	..	4855	17	43S	..	..	X
4753	6	43S	..	X	..	4856	12	43S	..	..	X
4754	6	43S	..	X	..	4857	12	43S	..	..	X
4755	6	43S	..	X	..	4858	13	43S	..	..	X
4757	6	43S	..	X	..	4900	5	43S	X	..	..
4758	6	43S	..	X	..	4901	5	43S	X	..	..
4759	6	43S	..	X	..	4902(d)	5	51ST	X	..	..
4760	6	43S	..	X	..	4903	5	43S	X	..	..
4761	6	43S	..	X	..	4904	5	43S	X	..	..
4762	12	43S	..	X	..	4905	5	43S	X	..	..
4770	17	43S	..	X	..	4906	5	43S	..	..	X
4771	17	43S	..	X	..	4907	5	43S	..	..	X
4780	15	43S	X	..	..	4920	9	43S	..	X	..
4781	15	43S	..	..	X	4921	9	43S	..	X	..
4782	15	43S	..	..	X	4922	9	43S	..	..	X
4783	15	43S	..	..	X	4923	9	43S	..	..	X
4800	14	43S	..	..	X	4930	9	43S	..	X	..
4801	14	43S	..	..	X	4931	9	43S	..	X	..
4850	13	43S	..	..	X	4932	9	43S	..	X	..
4851	12	43S	..	..	X	4933	9	43S	..	..	X
4852	12	43S	..	..	X	4975	17	51SW	..	X	..
4853	17	43S	..	..	X						

Stock Number	Catalog Page	(a) Alloy	Carried in Stock	(b) Dies Available	(c) Dies Not Available	Stock Number	Catalog Page	(a) Alloy	Carried in Stock	(b) Dies Available	(c) Dies Not Available
Tubing Square						Rectangular					
1/2 x 1/2 x 16 Ga.	18	51SW	X	..	..	2 x 1 x 14 Ga.	18	51SW	X	..	..
3/4 x 3/4 x 16 Ga.	18	51SW	X	..	..	2 1/2 x 1 1/4 x 14 Ga.	18	51SW	X	..	..
1 x 1 x 16 Ga.	18	51SW	X	..	..	3 x 1 3/4 x 11 Ga.	18	43S or 51SW	..	X	..
1 1/2 x 1 1/2 x 14 Ga.	18	51SW	X	..	..	3 x 2 x 11 Ga.	18	43S or 51SW	..	X	..
2 x 2 x 14 Ga.	18	51SW	X	..	..	3 1/4 x 1 3/4 x 12 Ga.	18	51SW	X	..	..
Rectangular						Machine Screws					
1 3/8 x 1 x 16 Ga.	18	51SW	..	X	..		18	17ST	X	..	..
1 1/2 x 3/4 x 18 Ga.	18	51SW	..	X	..	Rivets					
1 1/2 x 1 x 11 Ga.	18	43S	..	X	..		18	3S	X	..	..
						Wood Screws					
							18	17ST	X	..	..

Note (a) This denotes the Aluminum Alloy in which sections are carried in Stock or recommended. All sections can be furnished in other Alloys from mill if desired.

Note (b) Dies for these sections are available at mill and shipment can be made in 2 to 3 weeks. No charge for dies.

Note (c) Dies for sections in this column will have to be made up and shipment can be made in 4 to 5 weeks. Dies charged at moderate cost.

Note (d) This section will be carried after present supply is exhausted in Alloy 43S.